

What is claimed is:

1. A light and support assembly, comprising:
a light apparatus having (i) a light generating device, (ii) a battery housing, (iii) a first attachment mechanism secured to said battery housing, (iii) an elongate support conduit interposed between said light generating device and said battery housing, and (iv) a power source disposed within said battery housing, and (v) wiring extending through said elongate support conduit and electrically coupling said light generating device to said power source; and
a support structure having a second attachment mechanism configured to mate with said first attachment element,
wherein said first attachment mechanism of said light apparatus includes one of a dovetail shaped element and a dovetail shaped cavity, and
wherein said second attachment mechanism of said support structure includes the other of said dovetail shaped element and said dovetail shaped cavity.
2. The assembly of claim 1, wherein said support structure includes a housing for functional components of a power tool.
3. The assembly of claim 2, wherein said power tool is a rotary tool.
4. The assembly of claim 1, wherein said support structure includes a tool support fixture configured to couple to a power tool.

5. The assembly of claim 4, wherein said power tool is a rotary tool.
6. The assembly of claim 1, wherein said support structure includes a clip device configured to mount to an object.
7. The assembly of claim 6, wherein said clip device includes:
a base, and
a clip arm movably coupled to said base.
8. The assembly of claim 7, wherein:
said clip is movable between an open position and a closed position, and
said clip is spring biased toward said closed position.
9. The assembly of claim 1, wherein said light generating device includes an LED.
10. The assembly of claim 9, wherein said LED includes a built-in refraction lens.
11. The assembly of claim 1, wherein said power source includes at least one battery.

12. The assembly of claim 1, wherein said power source includes a plurality of disc shaped batteries.

13. The assembly of claim 1, wherein:
said dovetail shaped element includes a knob extending from a surface thereof,
said support structure has a dimple defined therein which is located in said dovetail shaped cavity, and
said knob is located in said dimple when said first attachment mechanism is mated with said second attachment mechanism.

14. The assembly of claim 1, wherein said elongate support conduit includes a gooseneck cable extending between said light generating device and said battery housing.

15. The assembly of claim 1, wherein said light generating device includes a switch for selectively coupling and decoupling said light generating device from said power source.

16. The assembly of claim 15, wherein:

said light generating device further includes a light housing and a rotatable member,

said switch includes a spring mounted within said light housing and movable between an open circuit position and a closed circuit position, and

rotation of said rotatable member in relation to light housing causes said spring to move from said open circuit position to said closed circuit position.

17. The assembly of claim 16, wherein:

said light housing includes a set of internal threads, and

said rotatable member includes a set of external threads that mate with said set of internal threads.

18. The assembly of claim 16, wherein said switch further includes an O-ring positioned between said rotatable member and said light housing to inhibit movement therebetween.

19. The assembly of claim 1, wherein:

said support structure includes a power tool housing for functional components of a rotary power tool,

a first end portion of said power tool housing defines an opening through which a rotating member of said rotary power tool extends,

said second attachment mechanism is located at a second end portion of said power tool housing that is opposite said first end portion.

20. The assembly of claim 19, wherein said functional components of said rotary power tool includes drive and control components of said rotary power tool.

21. The assembly of claim 19, wherein:

said light apparatus has a first length

said power tool housing has a second length, and

said first length is equal to or greater than said second length.

22. The assembly of claim 1, wherein:

said support structure includes a power tool housing for functional components of a rotary power tool,

said power tool housing defines an opening at a first end thereof through which a rotating member of said rotary power tool extends,

said second attachment mechanism is located at a second end of said power tool housing that is opposite said first end, and

said light apparatus spans the length of said power tool housing so as to position said light generating device adjacent to said opening.

23. A light assembly, comprising:

a light generating device;

a battery housing;

an attachment mechanism supported by said battery housing, said attachment mechanism including one of a dovetail shaped element and a dovetail shaped cavity;

an elongate support conduit interposed between said light generating device and said battery housing;

a power source disposed within said battery housing; and

wiring extending through said elongate support conduit and electrically coupling said light generating device to said power source.

24. The assembly of claim 23, wherein said light generating device includes an LED.

25. The assembly of claim 24, wherein said LED includes a built-in refraction lens.

26. The assembly of claim 23, wherein said power source includes at least one battery.

27. The assembly of claim 23, wherein said power source includes a plurality of disc shaped batteries.

28. The assembly of claim 23, wherein:

said attachment mechanism includes said dovetail shaped element, and

said dovetail shaped element includes a knob extending from a surface thereof.

29. The assembly of claim 23, wherein said elongate support conduit includes a gooseneck cable extending between said light generating device and said battery housing.

30. The assembly of claim 23, wherein said light generating device includes a switch for selectively coupling and decoupling said light generating device from said power source.

31. The assembly of claim 30, wherein:

said light generating device further includes a light housing and a rotatable member,

said switch includes a spring mounted within said light housing and movable between an open circuit position and a closed circuit position, and

rotation of said rotatable member in relation to light housing causes said spring to move from said open circuit position to said closed circuit position.

32. The assembly of claim 31, wherein:
said light housing includes a set of internal threads,
said rotatable member includes a set of external threads that mate with
said set of internal threads.

33. The assembly of claim 31, wherein said switch further includes an O-
ring positioned between said rotatable member and said light housing to inhibit
movement therebetween.